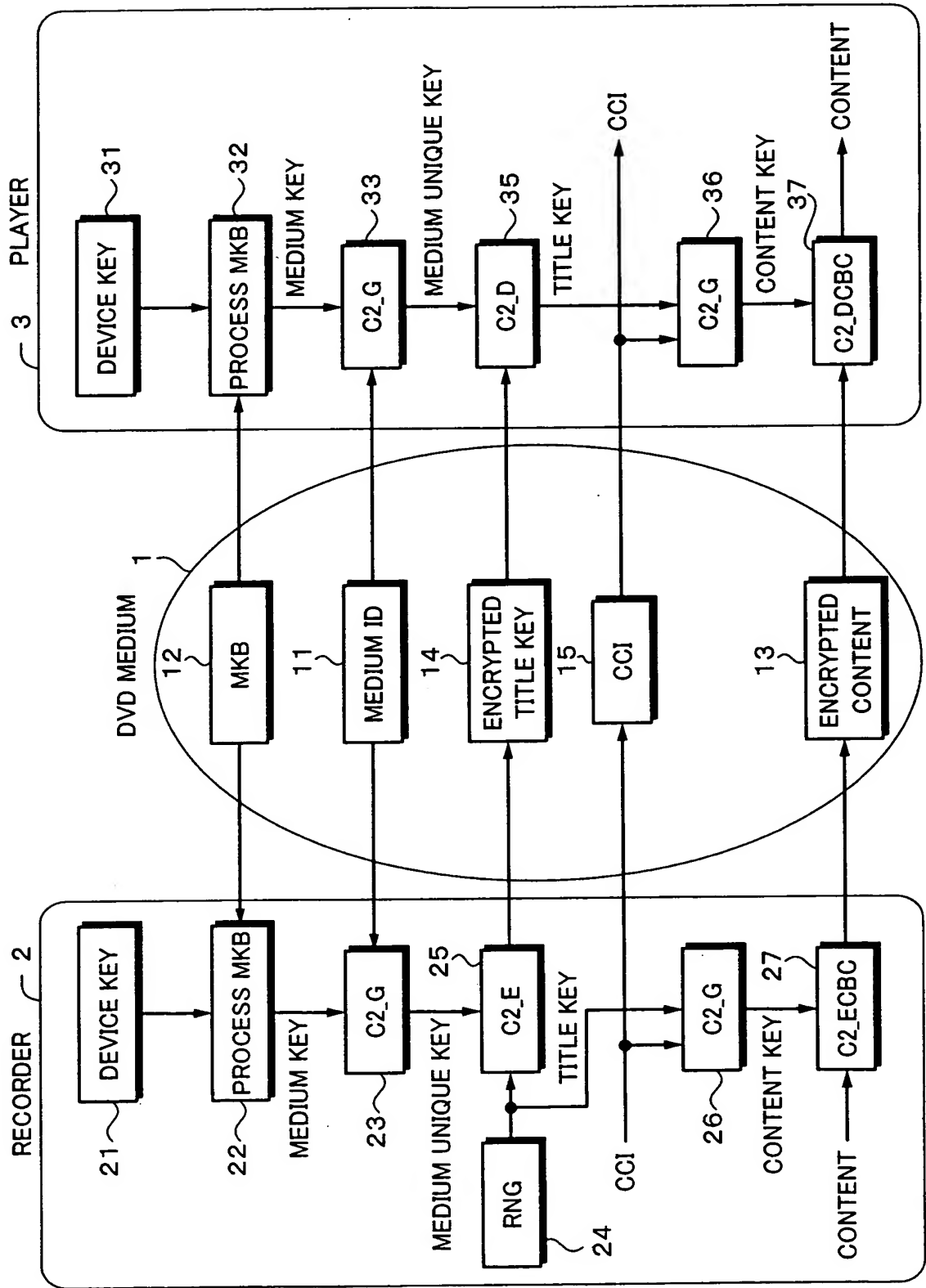
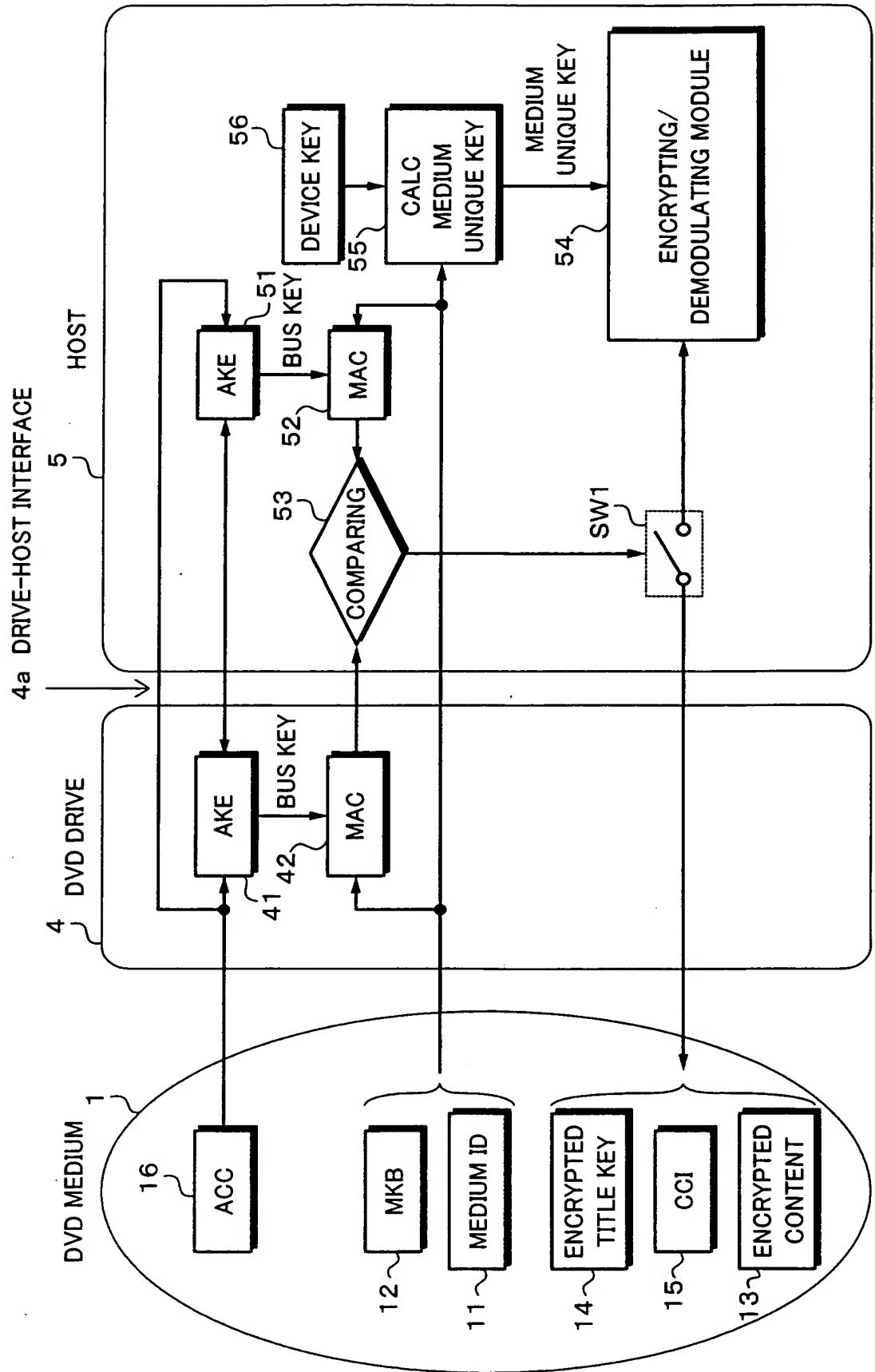


Fig. 1



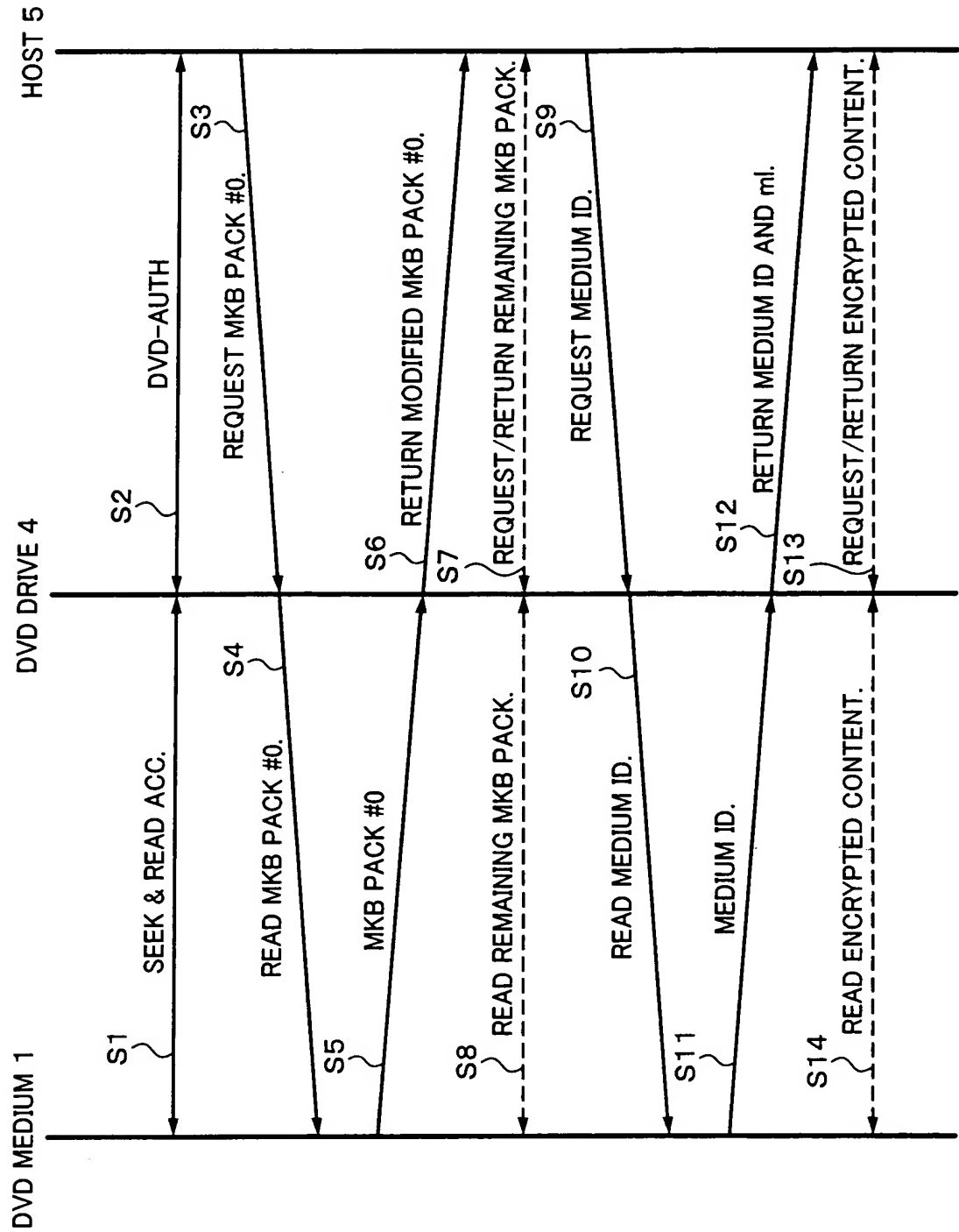
10/505175

Fig. 2



10/505175

**Fig. 3**



**Fig. 4**

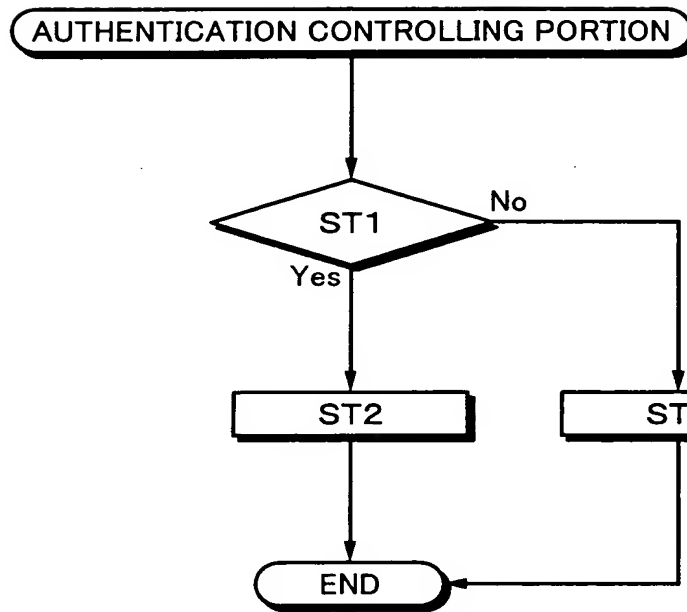
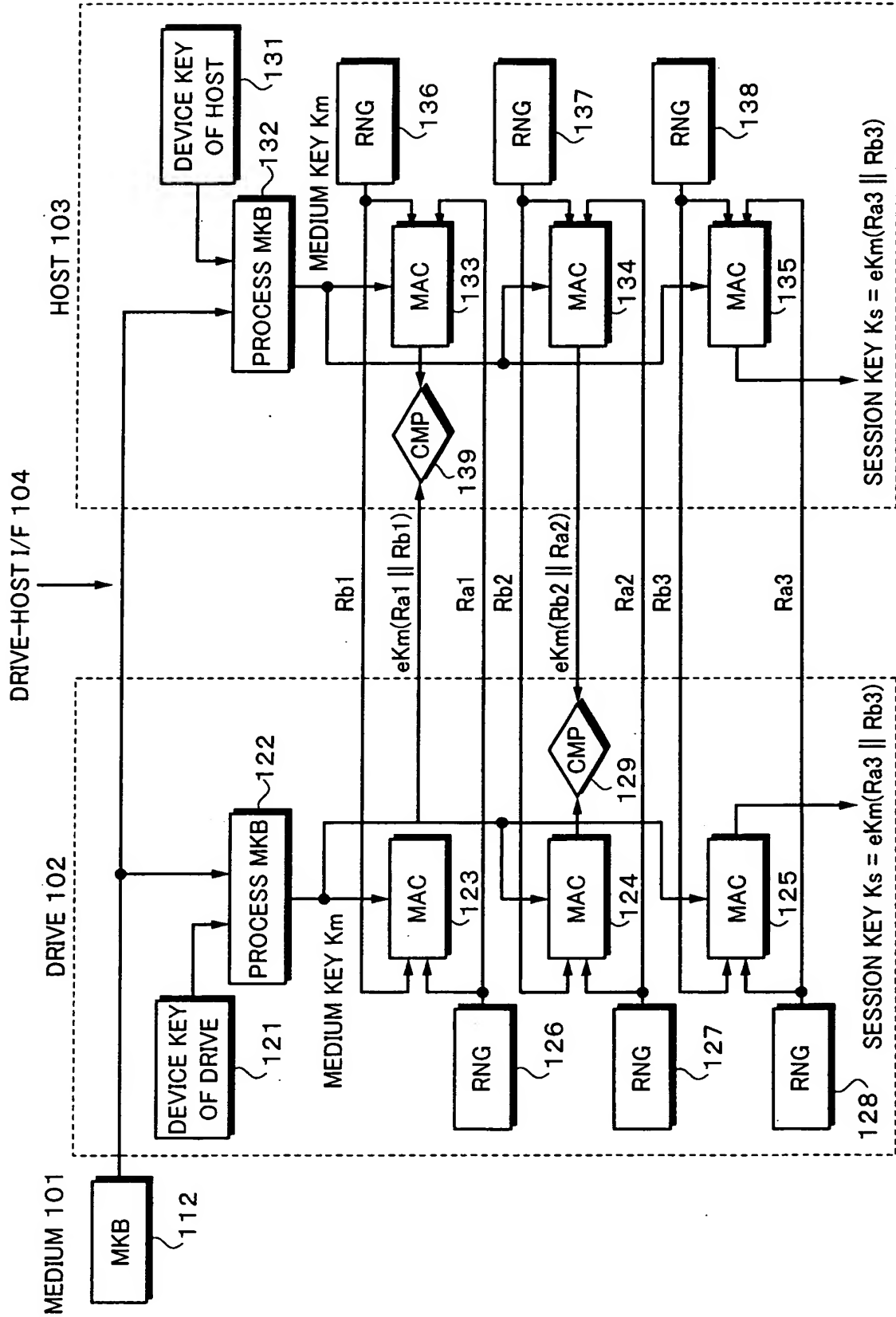
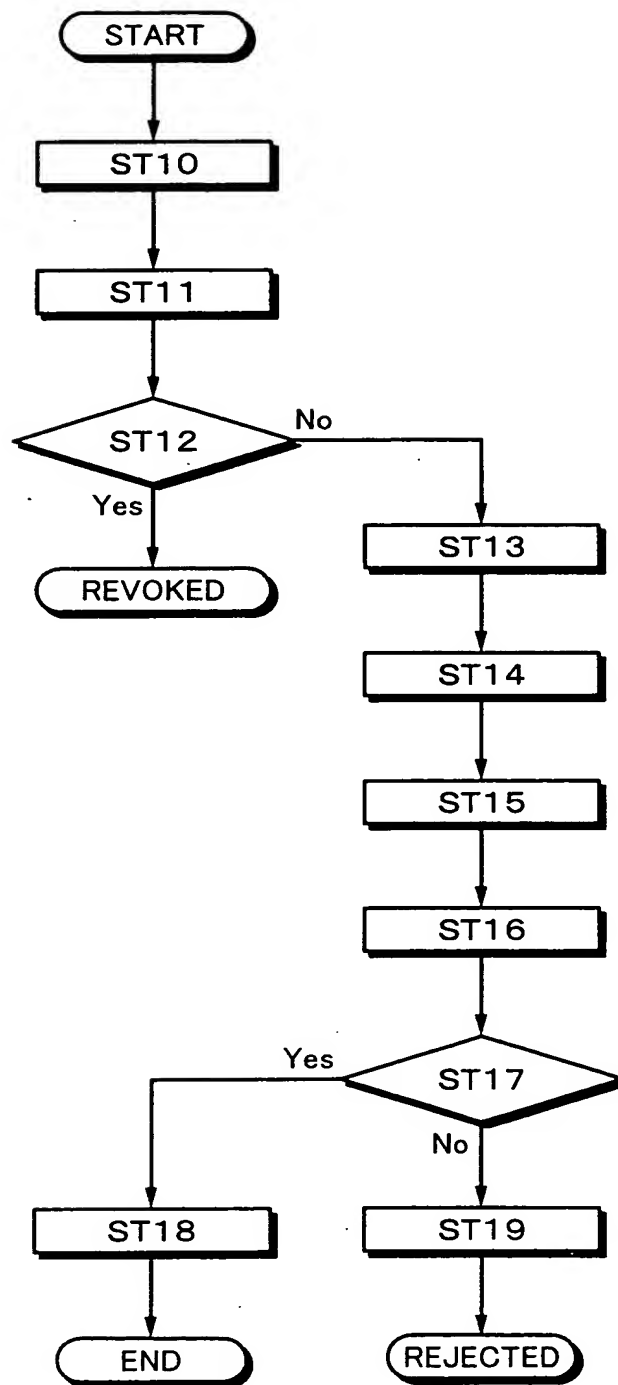


Fig. 5



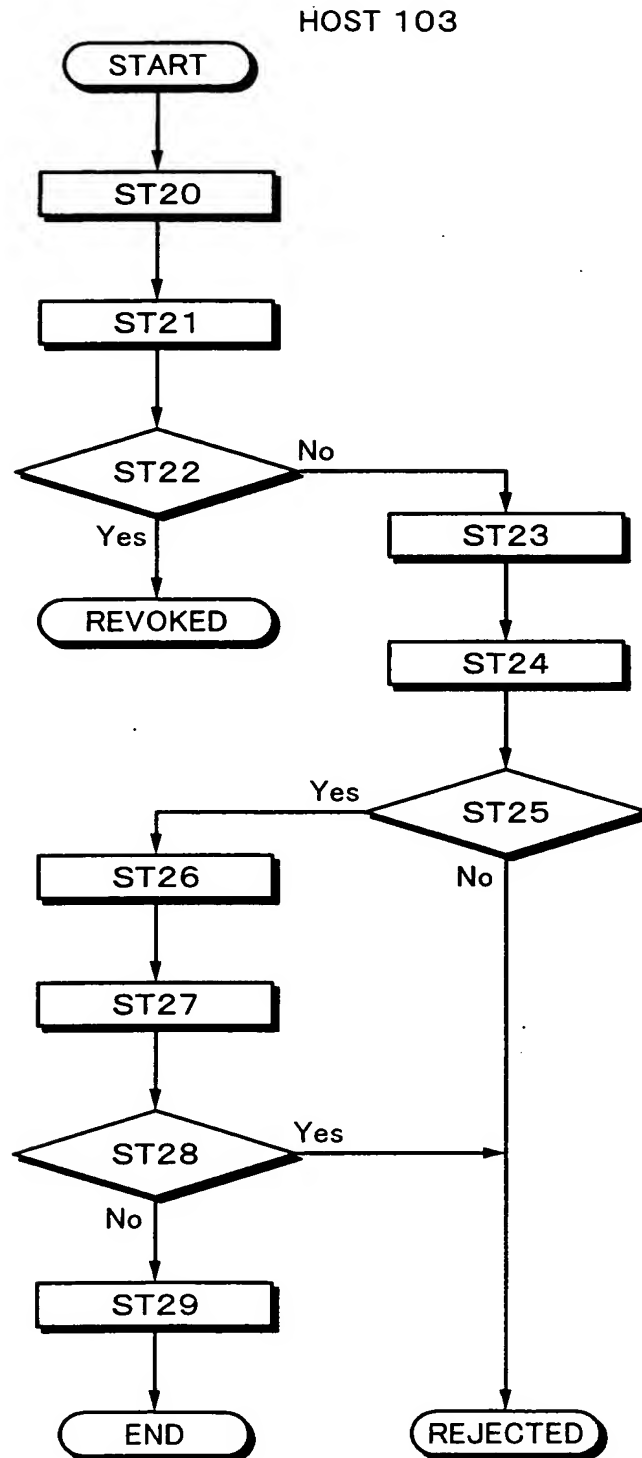
**Fig. 6**

DRIVE 102



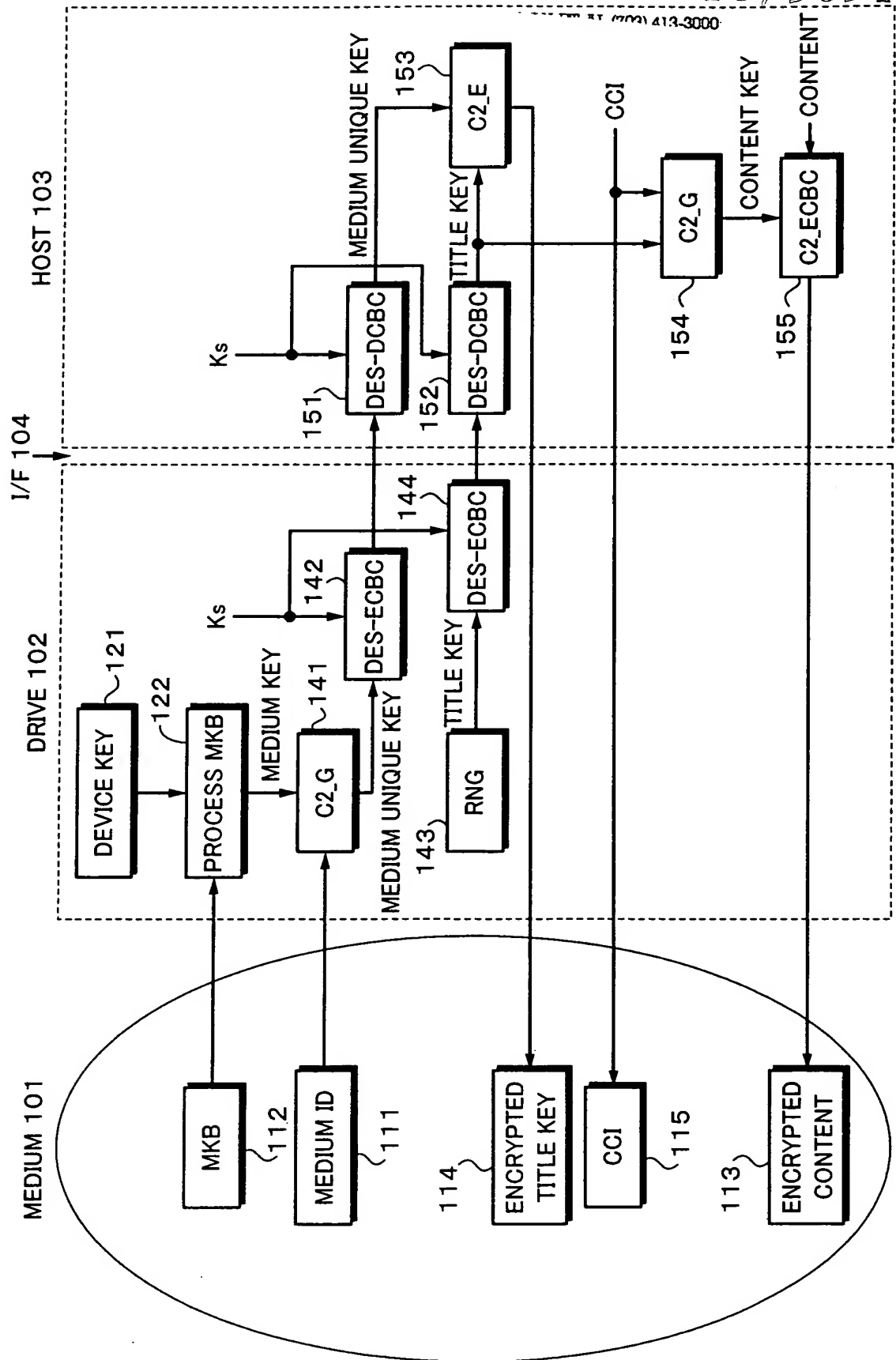
10/505175

**Fig. 7**



10/505175

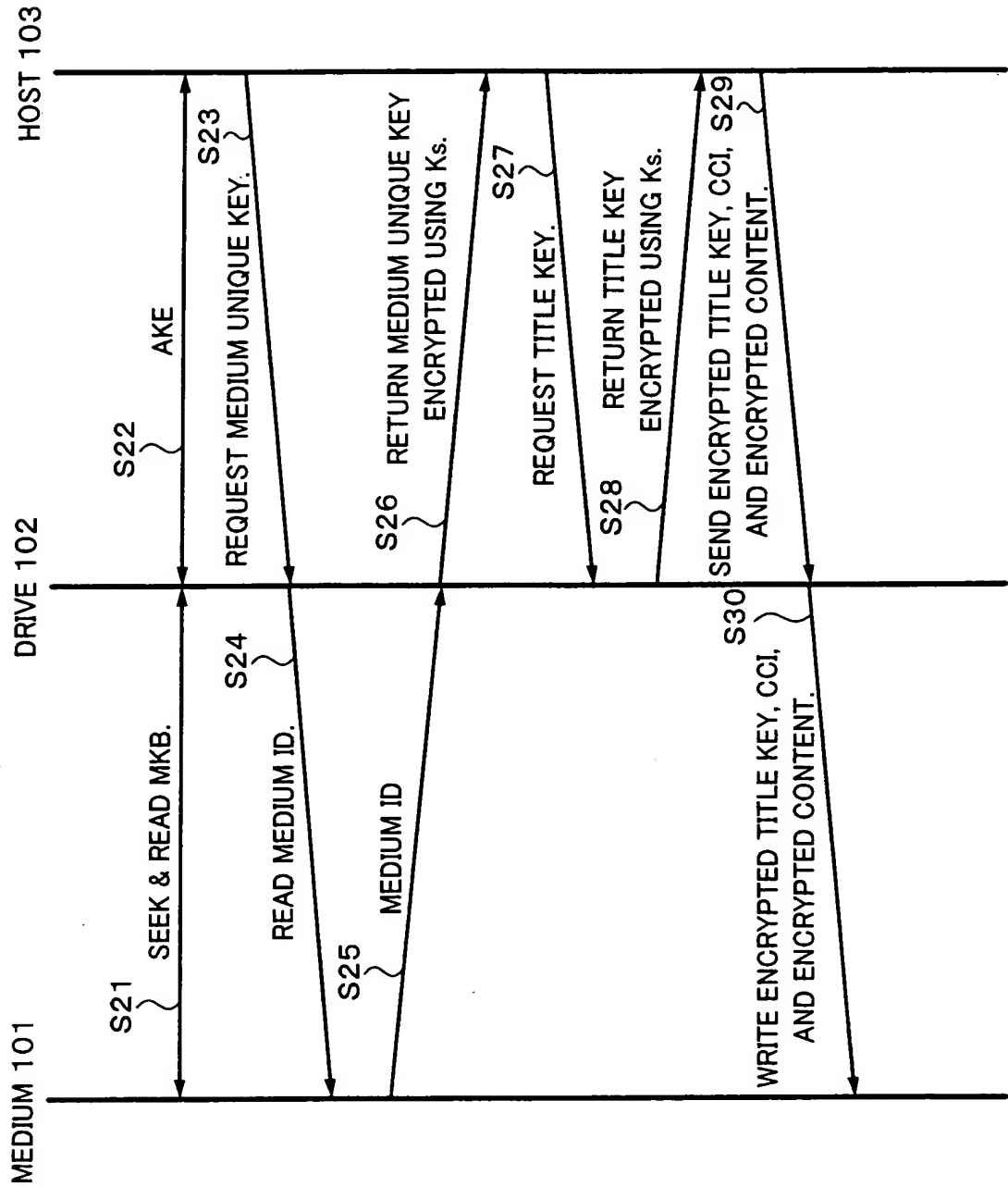
Fig. 8





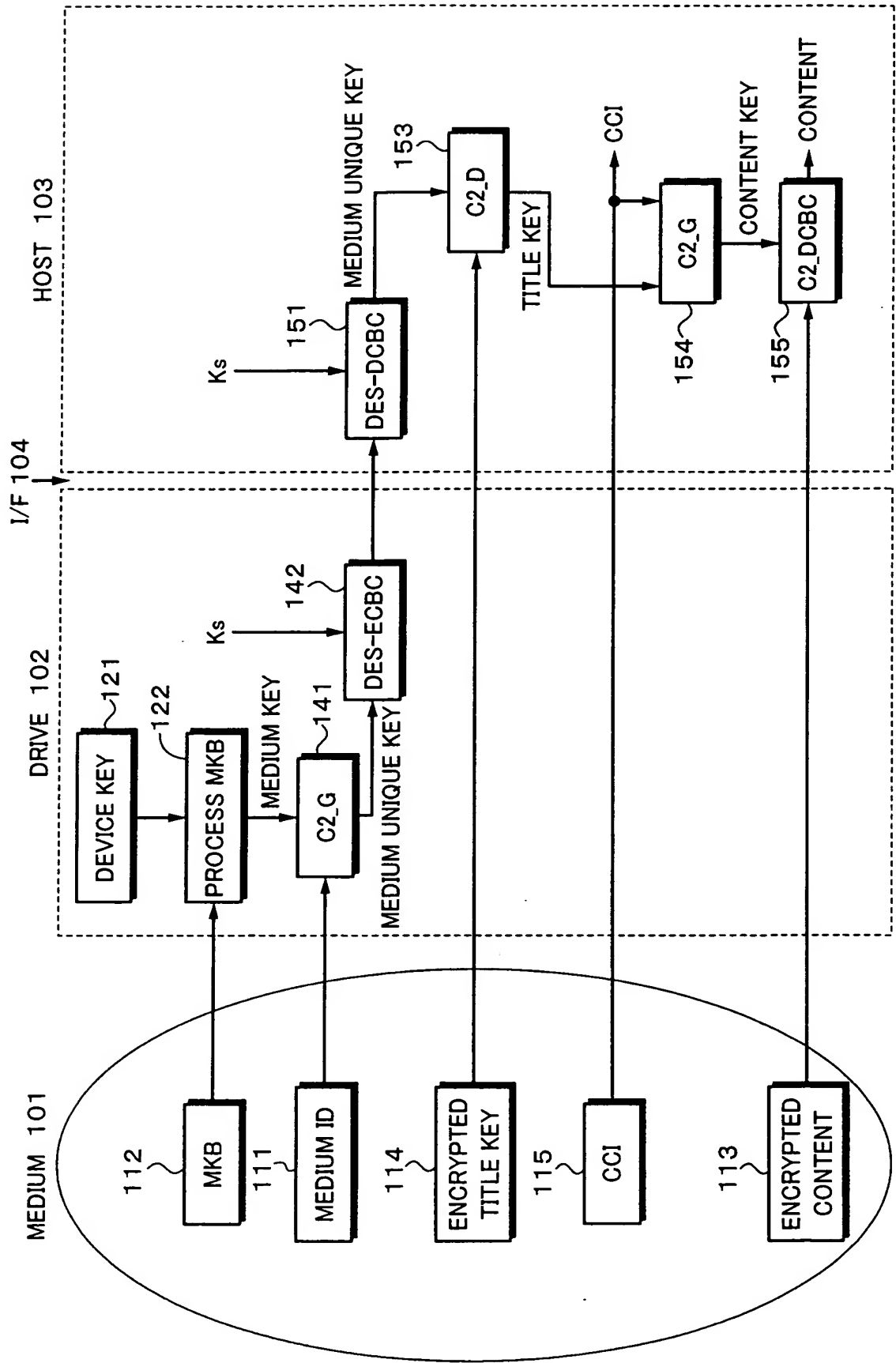
10/505175

**Fig. 9**



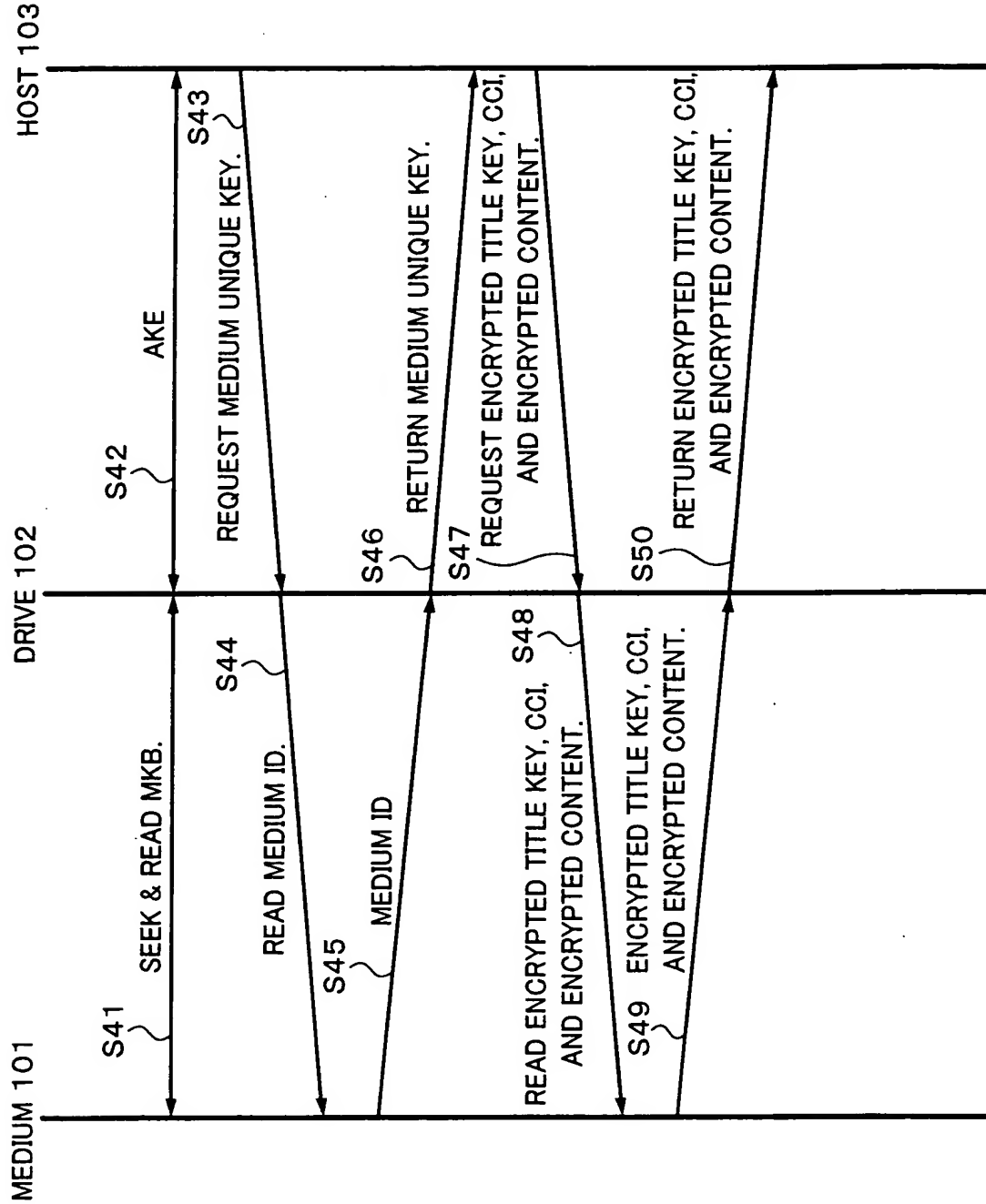
10/305175

Fig. 10



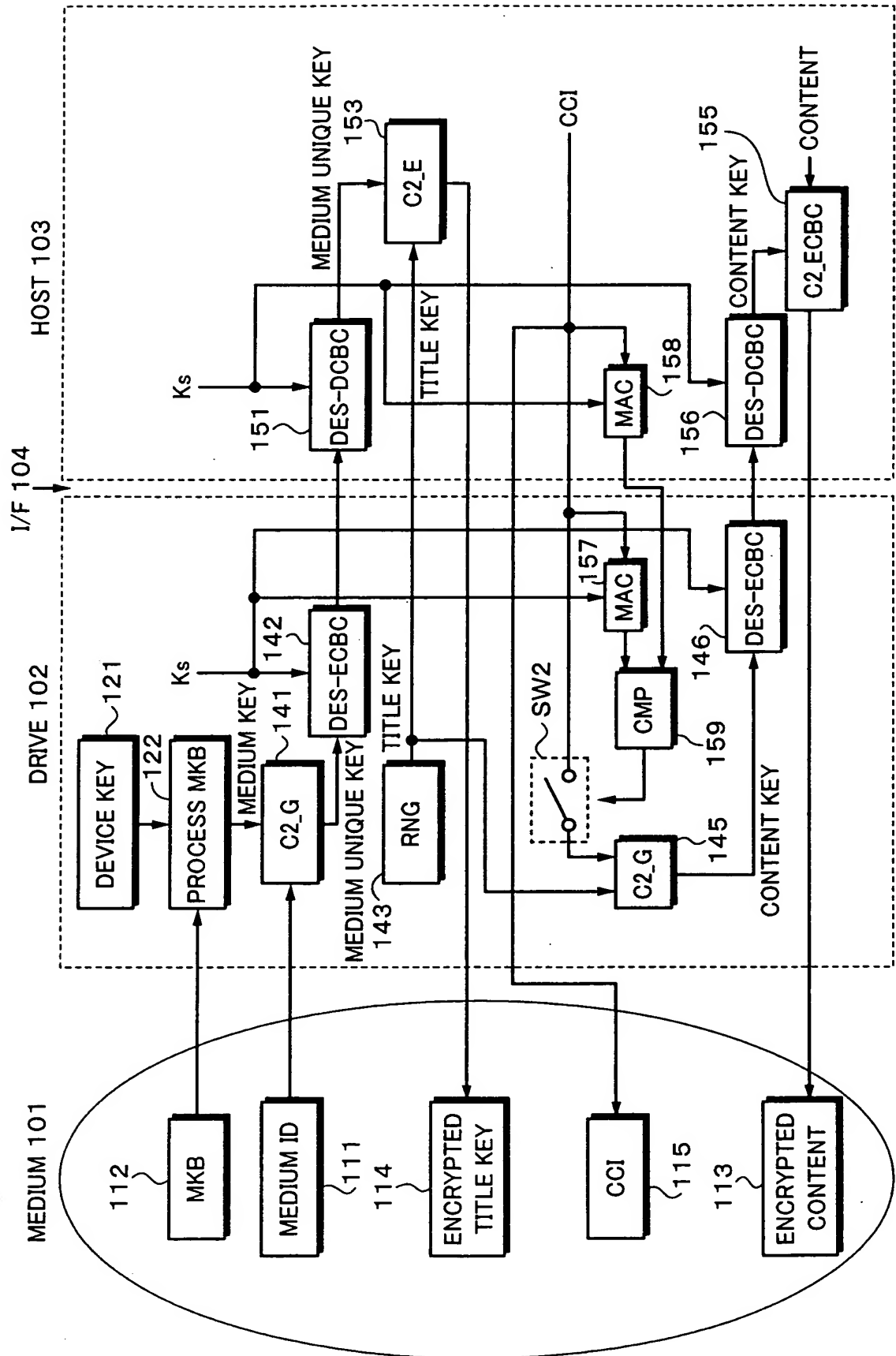
10/505175

Fig. 11



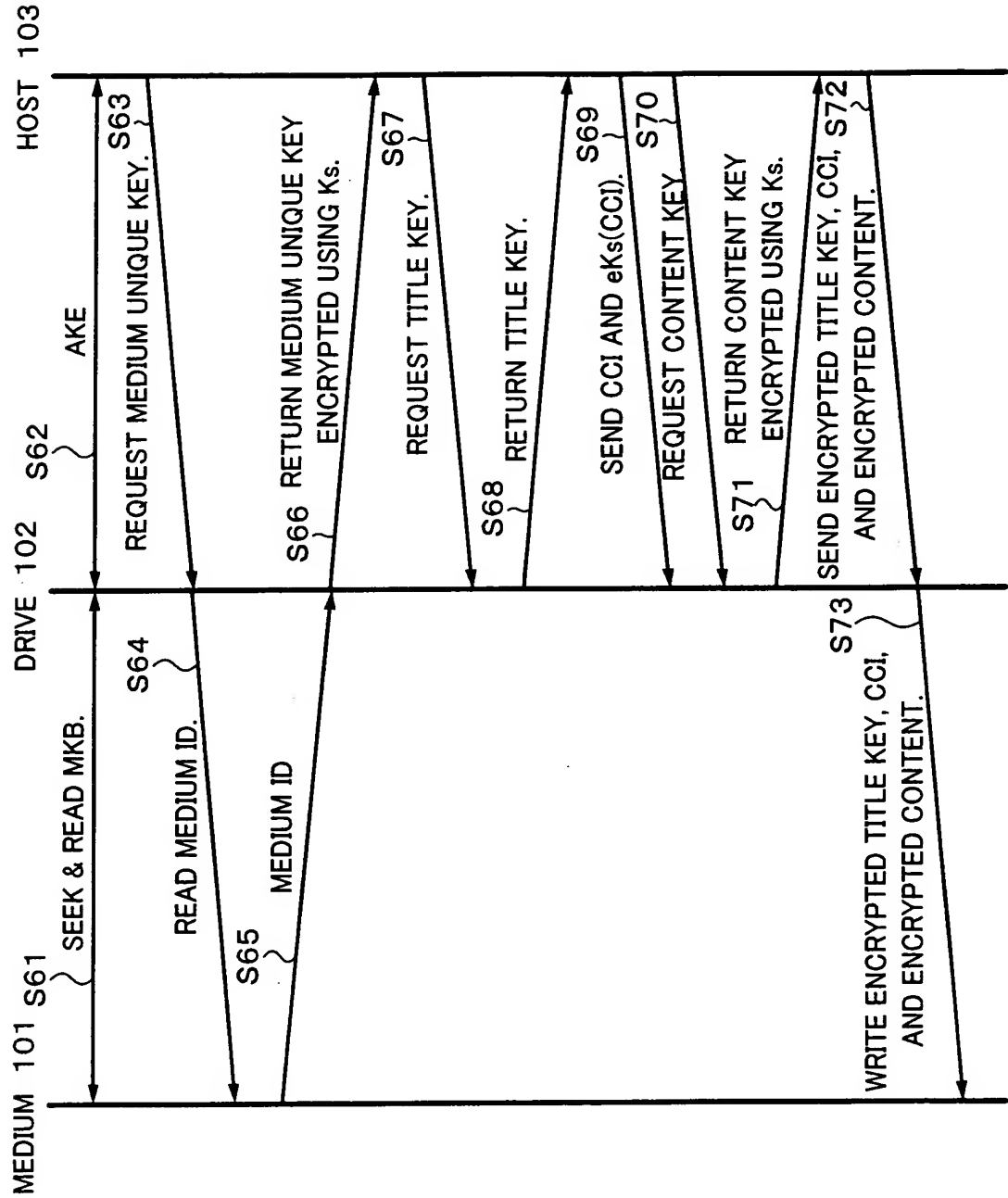
10/505175

Fig. 12



10/505175

Fig. 13



10/505175

## DESCRIPTION OF REFERENCE NUMERALS

1	DVD MEDIUM
2	RECORDER
3	PLAYER
4	DVD DRIVE
4a	INTERFACE
5	HOST
11	MEDIUM ID
12	MEDIUM KEY BLOCK (MKB)
13	ENCRYPTED CONTENT
42, 52	MAC CALCULATING BLOCK
46	DEVICE KEY
46a	FIRST HALF PORTION OF DEVICE KEY
47	DES ENCRYPTOR
48	MEDIUM UNIQUE KEY CALCULATING BLOCK
49, 49a	DES ENCRYPTOR
49b	DES DECRYPTOR
53	COMPARING PORTION THAT COMPARE MACS
54	ENCRYPTING/DECRYPTING MODULE
55	MEDIUM UNIQUE KEY CALCULATING BLOCK
101	MEDIUM
102	DRIVE
103	HOST
104	INTERFACE
121	DEVICE KEY OF DRIVE

10/505175

122           PROCESS MKB

123, 124, 125       MAC CALCULATING BLOCK OF DRIVE

126, 127, 128       RANDOM NUMBER GENERATOR OF DRIVE

129           COMPARING

131           DEVICE KEY OF HOST

132           PROCESS MKB

133, 134, 135       MAC CALCULATING BLOCK OF HOST

136, 137, 138       RANDOM NUMBER GENERATOR OF HOST

139           COMPARING

141, 154          C2\_G

142, 144          DES ENCRYPTOR

143           RANDOM NUMBER GENERATOR

151, 152, 156       DES DECRYPTOR

153           C2\_E

155           C2\_EBC

157, 158          MAC CALCULATING BLOCK

159           COMPARING

ST1           MAC CALCULATED VALUES MATCH ?

ST2           TURN ON SWITCH.

ST3           TURN OFF SWITCH.

ST10          REPORT KEY (MKB)

ST11          CALCULATE MEDIUM KEY Km.

ST12          REVOKED ?

ST13          RECEIVE (Rb1, Rb2).

ST14          RETURN (eKm(Ra1 || Rb1), Ra1).

10/505175

ST15        RETURN (Ra2, Ra3).  
ST16        RECEIVE (eKm(Rb2 || Ra2), Rb3).  
ST17        SAME MAC ?  
ST18        SESSION KEY CONFIRMED (eKm(Ra3 || Rb3)  
ST19        RETURN (ERROR)  
ST20        REPORT KEY (MKB)  
ST21        CALCULATE MEDIUM KEY Km.  
ST22        REVOKED ?  
ST23        SEND KEY (Rb1, Rb2).  
ST24        REPORT KEY (eKm(Ra1 || Rb1), Ra1)  
ST25        SAME MAC ?  
ST26        REPORT KEY (Ra2, Ra3)  
ST27        SEND KEY (eKm(Rb2 || Ra2), Rb3)  
ST28        ERROR ?  
ST29        SESSION KEY CONFIRMED (eKm(Ra3 || Rb3))